

WPW-220 Wireless Power Switch (US)

Installation instructions

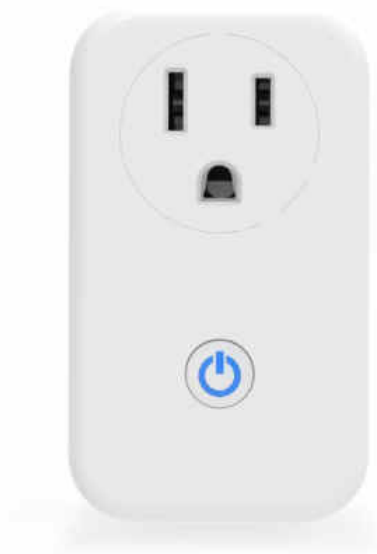


Table of Contents

一、	Product Overview	1
二、	Feature.....	1
三、	Installation Operation.....	2
四、	Precautions	2
五、	Troubleshooting	3

一、Product Overview

1. Product Name : Wireless Power Switch (US)
2. Model : WPW-220
3. Power supply : 100~120VAC
4. Dimensions (mm) and Accessories : 82 x 45x 36mm The controller base, manual



二、Feature

1. Radio transmission, sent to the receiving host on / off signals to control the power supply or power outlet execution, also by phone to remotely control home electrical equipment, improve convenience of life.
2. Series compatible, can be used with wireless door detector (SCT-230) or wireless displacement detector (SMT-230) do not even move control, such as corridors auxiliary lighting at night.
3. Easy to use, placed in a power outlet, press the SET button, so that the host is connected to each other to complete the setup.
4. It can be connected to other appliances. Transparent LED keys to control the power state, the red light indicates that the power output.

5. Both wireless signal router functions, transmission system may extend the terminal host and detector distance.

三、Installation Operation

1. First WPW-220 connected to the power outlet, then will enter the boot mode, the blue light on the front of the boot will be completed after about 90 seconds of constant light. If you want to skip this program, press the SET button.
2. To register the first to prepare the upper device - Press Gateway (Host) or short press Router (router) behind the SET button, then press the SET button on the side of the machine. In this case the host device and this opportunity within about 15 seconds flashing lights; when the connection is successful, the host device and the machine's LED light will flash at the same time long after the close, that has successfully paired connection.
3. If the connection fails, the second party device will flash after 15 seconds in length at the blue lights.
4. Transparent front LED button to control the power state, blue light indicates power output.
5. Power Measurement: When I want to measure the electrical connector socket on the machine, turn the power output starts automatically calculate the voltage, current, power. (Need to use power measurement value for at least one hour)
6. Price calculation: please set by the web user interface peak, off-peak electricity price and time, and set the time of desire accumulated (in months, up to three months), the system automatically calculates the total price, and to distinguish between peak, off-peak electricity (as far back in 1 year)
7. Power measured values via web, mobile APP, wireless terminal controller made, APP achieved price calculated values via web, phone.
8. Releasing the connection: Press the sides of the machine SET button until flashing green light goes out and then release, the unit for about three seconds after the long flashed blue lights, that means lifting successful connection.

四、Precautions

1. The maximum current load of 10A / 120V, 1200W

2. Power measurement ranges :
 - (1) Measuring voltage range : 100~130VAC
 - (2) Measuring Current Range : 0.3~10A
 - (3) Measuring power range : 30~1300W
 - (4) Measuring the cumulative time in months, up to three months (as far back in 1 year)
3. As the wireless signal router can connect up to 16 wireless detectors. 1 set of system can accommodate up to 16 wireless signal router.
4. Wireless signals in series to host up to three relay.

五、Troubleshooting

1. Abnormal situation: WPW-220 LED indicator flashes the number of abnormal, can not recognize the connection status. Treatment:
 - a. Make sure the power outlet is connected properly and whether the power supply is normal supply.
 - b. Re-plug power, restore factory value, and set the connection again.
 - c. If the above situation to handle invalid, please contact your dealer.
2. Abnormal situation: unable to connect with the wireless host. Treatment:
 Make sure the distance WPW-220 and the host or between repeaters, whether in unsheltered effective distance of 300 meters straight. If the shelter will shorten the effective distance, you can shorten the distance between the two, or join repeaters, re-test without improvement.

Specifications

UIS/Wireless Power Switch	
Model No.	WPW-220
Electrical Specification	
Transmit Frequency	2.4GHz ISM band, IEEE802.15.4: 2405 ~ 2480MHz
Channel NO.	16 Channel (2405MHz to 2480MHz)
Operation Range	Up to 200 meters (LOS)
RF Nominal output power	15 ± 1 dBm
RF Receiver sensitivity	-97 dBm(typ)
Power Consumption	Working: ~1.87W

	Standby: ~1.32W
LED Indicator	Blue 1PC/Red 1PC LED Status: Relay (ON/OFF)
Operation Interface	Push button switch for setting on the side Push button switch for Relay on/off in front
Operating Voltage	100~120VAC 50/60 Hz
Resistive Load	10A/120VAC, 1200W max.
Inductive Load (Single Face)	0.5HP/120VAC
Over Current Protection	11A
Measure Voltage Range	100~130VAC
Measure Current Range	0.3A~10A± 10%
Measure Power Range	30~1300W± 10%
Software Protocol Version	ZHA1.2x
Reconnect scenario	Reconnect scenario will be implement when device in ORPHAN state STEP 1 : Reconnect to original network 3 times every 5min. If not success, enter STEP-2 STEP 2 : Reconnect to original network 3 times every 30min. If not success, enter STEP-3 STEP 3 : Reconnect to original network every 60min repeatedly.
Environmental Requirement	
Operating Temperature	-10°C to 50°C
Storage Temperature	-10°C to 70°C
Humidity	90% RH Max., Non-Condensing
Mechanical Specification	
Dimension (WxHxD, mm)	82 x 45x 36
Weight	70g

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) this device may not cause harmful interference,
 and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

低功率電波輻射性電機管理辦法

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。